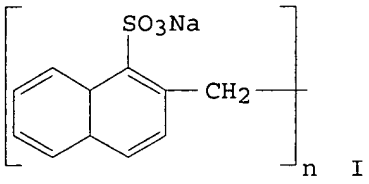
L3 ANSWER 33 OF 49 CA COPYRIGHT 2004 ACS on STN
AN 110:43936 CA
ED Entered STN: 04 Feb 1989
TI Modifiers for cementitious materials
IN Martin, Michael John
PA Syntec Chemicals Pty. Ltd., Australia
SO Pat. Specif. (Aust.), 19 pp.
CODEN: ALXXAP
DT Patent
LA English
IC C04B013-28
CC 58-1 (Cement, Concrete, and Related Building Materials)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	AU 572111	B2	19880505	AU 1984-23706	19830121
	AU 8423706	A1	19840726		
PRAI	AU 1983-7712		19830121		

GI



I

AB The modifiers comprise 70-30 wt. parts hydroxy Pr Me **cellulose**, 10-40 wt. parts of a Na salt of **naphthalene formaldehyde sulfonate** having the general formula I, and a substantially Cl-free, non-efflorescent cement accelerator. These modifiers are useful in cement mortars to improve their workability and strength. A preferred modifier consisted of a dry powder mixt. of hydroxy Pr Me **cellulose** (mol. wt. 85,000-95,000) 66.6, I (n = 7-10) 26.74, and Ca(HCO7)2 6.66 wt. parts. A mortar was prepd. from portland cement 1, clean sharp sand 5, and 0.003 vol. parts modifiers. The bond strengths of the mortar for **clay** bricks and concrete blocks were .apprx.0.7 and .apprx.0.8 MPa, vs. .apprx.0.1 and .apprx.0.1 MPa resp., for mortar not contg. the modifiers.

ST modifier portland cement mortar; hydroxy Pr Me **cellulose** modifier; **naphthalene formaldehyde sulfonate** sodium modifier; calcium formate modifier

IT Concrete
(blocks, modified mortar for, for bond strength)

IT Mortar